

Diesel forklifts
16000, 20000, 25000, 28000, 32000 kg



HMT
forklifts

SERIES 4

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- The forklifts HMT complies with the Directive 2006/42/EC; 2004/108/EC; 2000/14/EC&2005/88/EC.
 - Integrated hydraulic fork positioner and side shift.
 - Heavy duty pneumatic tires.
 - Overhead guard according to FOPS&RPOS standard.
 - Air conditioning.
 - Comfort driver seat with air-cushions, wide armrests and backrest, safety belt.
 - Hand opening windows in the cab door.
 - Adjustable steering wheel.
 - Radio instalation device with sound speakers.
 - Rear view camera with display inside cabin.
 - Combimeter with necessary indicators: hour meter, fuel indicator, parking brake light, battery charging, engine coolant indicator, engine oil pressure indicator and others.
 - Sound alarm for rear movement.
 - Front / Rear Lights.
 - Set of filters for 1st maintenance



CHASSIS

- The chassis of fabricated steel plate gives high strength and reliability of construction.
- Uniform alignment of loading over entire construction

LIFTING EQUIPMENT

- A robust produced mast of all roller construction affords immense strength, maximum load stability and mast rigidity at full lift height.
- Excellent visibility
- Full width load rollers and side thrust rollers between inner and outer mast ensure complete alignment and an even distribution of loading.



ENGINE

- Modern 4/6 cylinders diesel engine Volvo Penta TAD Tier4F / Stage 4
- According to the last standards and requirements for exhaust emissions and noise level
- High performance, long service period, low fuel consumption



TRANSMISSION

- Heavy-duty industrial power shift transmission DANA for work in hard conditions, directly mounted to the engine.
- Hydrodynamic transmission gives 3/4 forward and 3/4 reverse speeds. Gear selection is electrically controlled.





DRIVE AXLE

- The forklifts HMT have a heavy-duty wide truck double reduction type drive axle OMCI with spiral bevel primary and hub planetary secondary.
- The half shafts are fully floating and run in taper roller bearings in oil, which has independence cooling
- The drive axle is equipped with disk brakes, which are working in oil bath.

STEERING AXLE

- Mounted to the chassis through pin type axle
- Double acting cylinder is fully protected from from mechanical damages
- Hydraulic valves protected double acting cylinder from high overloading
- Fully hydrostatic power steering is giving excellent manoeuvrability without operator fatigue.

BRAKES

- Oil-actuated, hub-mounted wet disc brake units with own cooling system.
- Fail-safe oil-actuated brake system.
- Input shaft, disc mounted parking brake unit.
- Brake system SAFIM is isolate from surroundings.

DRIVER'S MODULE

- The drive's module is mounted to the chassis on independence rubber pads.
- A wide staircase gives good access to the driver's position.
- The truck is equipped with suspension seat, which is adjustable to ensure high level of driver comfort. The seat is with shock - absorber.



- Possibility to adjust direction of hot air flow, coming from the heating, panoramic windows giving excellent view, adjustable speed of glass-wiper.
- Pilot control giving lightly and smooth control.
- All meters and gauges are on the adjustable steering column.



SAFETY

- Pressure relief valves in: brake pedal, hydrostatic power steering, control valves and other units.
- Load lifting and lowering speed valve.
- Load lowering valve in hoisting hydraulic plunger cylinders.
- Tilt speed valve.
- Fork movement speed and anti willfully movement of forks with load valve.
- The forward / reverse lever do not give possibility to start the engine if is not in the neutral position.
- Alarm signal for reverse movement.
- Warning orange lamp.
- Driver's overhead guard answered of all requirements for safety work and gives possibility for good all round visibility.
- Seat belts.
- Proper rings for easy lifting and lowering of the truck, which are integrant part of chassis.

OPTIONAL EQUIPMENT

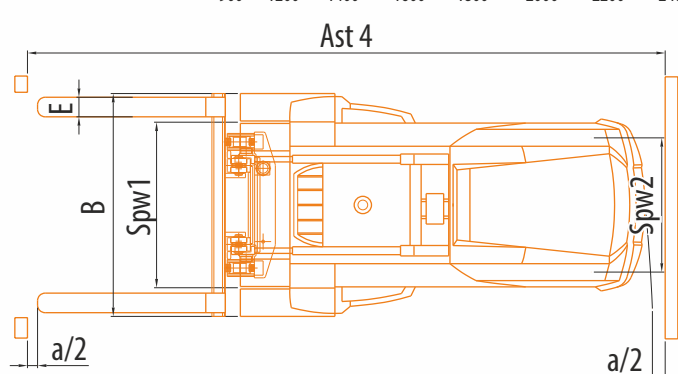
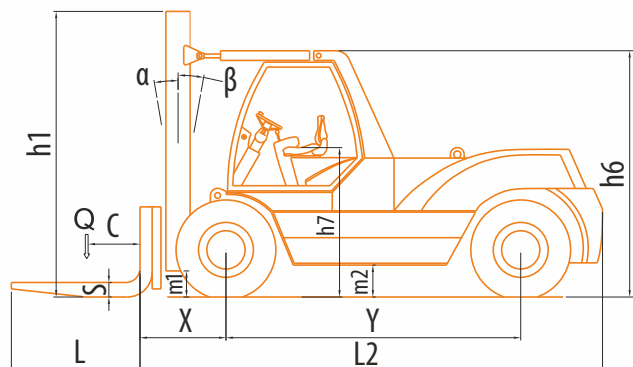
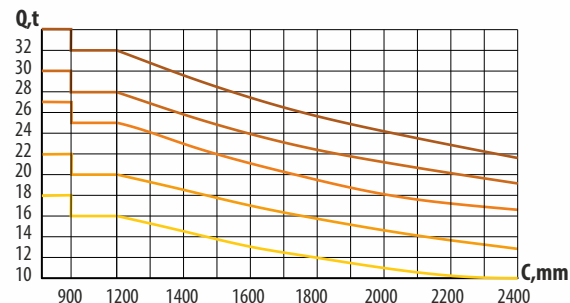
- Spark arrestor and inlet flame trap.
- Automatic gear selection.
- All attachments for forklift trucks.



Technical Data

Identification	1.1	Type		HMT 160 D	HMT 200 D	HMT 250 D	HMT 280 D	HMT 320 D
	1.2	Drive:	elec., diesel, gasoline, LPG	Diesel	Diesel	Diesel	Diesel	Diesel
	1.3	Driver position:		Seated	Seated	Seated	Seated	Seated
	1.4	Load capacity	Q(t)	16.0	20.0	25.0	28.0	32.0
	1.5	Load center	C(mm)	1200	1200	1200	1200	1200
	1.6	Distance from CL of front axle to fork face	X(mm)	960	1000	1050	1100	1150
	1.7	Wheel base	Y(mm)	3650	4000	4200	4200	4500
Weights	2.1	Weight - unladen	kg	22620	30120	35500	45220	48300
	2.2	Axle weight laden, front / rear	kg	36020 / 2600	46520 / 3600	55820 / 4680	69130 / 6090	72440 / 7860
	2.3	Axle weight unladen, front / rear	kg	10460 / 12160	16566 / 13554	17040 / 18460	23435 / 21785	22218 / 26082
Wheels, Chassis	3.1	Tyre type: SE=Superelastic, L=Pneumatic		L / L	L / L	L / L	L / L	L / L
	3.2	Tyre size, front		12.00 – 20	14.00 – 24	16.00 – 25	16.00 – 25	18.00 – 25
	3.3	Tyre size, rear		12.00 – 20	14.00 – 24	14.00 – 24	16.00 – 25	18.00 – 25
	3.4	Wheels, no. front / rear (x=drive)		4 x / 2	4 x / 2	4 x / 2	4 x / 2	4 x / 2
	3.5	Track, Spw1 / Spw2 front / rear		2020 / 1810	2240 / 2010	2240 / 2010	2500 / 2300	2440 / 2510
Basic Dimensions	4.1	Mast tilt angles, forward (α) / backward (β)		6 / 10	6 / 10	6 / 10	6 / 10	6 / 10
	4.2	Mast height - closed	h1(mm)	3550	3950	4050	4050	4600
	4.3	Free lift	h2(mm)	190	250	250	250	320
	4.4	Lift	h3(mm)	4000	4000	4000	4000	4000
	4.5	Mast height - extended	h4(mm)	5550	5950	6050	6050	6600
	4.6	Full free lift, duplex / triplex	h5(mm)	-	-	-	-	-
	4.7	Height of overhead guard	h6(mm)	2900	3100	3200	3200	3250
	4.8	Seat height	h7(mm)	1560	1760	1860	1860	1910
	4.9	Length to fork face	L2(mm)	5605	5955	6155	6220	6750
	4.10	Overall width	B(mm)	2690	3100	3100	3660	3600
Performance Data	4.11	Fork dimension (thickness/width/length)	s/e/l(mm)	100x250x2400	100x250x2400	110x250x2400	110x300x2400	115x310x2400
	4.12	Fork carriage to ISO 2328, Class A, B		positioner and side shifter	positioner and side shifter	positioner and side shifter	positioner and side shifter	positioner and side shifter
	4.13	Ground clearance laden under mast	m1(mm)	300	300	300	300	300
	4.14	Ground clearance center of wheel base	m2(mm)	340	400	500	500	500
	4.15	Aisle width, pallet 800x1200 / 1000x1200	mm	8790	9350	9440	9490	10300
	4.16	Turning radius	Wa(mm)	5190	5560	5650	5700	6700
	5.1	Travel speed, laden / unladen	km/h	25 / 28	25 / 28	25 / 28	26 / 28	25 / 28
Engine	5.2	Lifting speed, laden / unladen	m/s	0.35 / 0.40	0.25 / 0.29	0.25 / 0.29	0.29 / 0.30	0.25 / 0.29
	5.3	Lowering speed, laden / unladen	m/s	0.50 / 0.30	0.50 / 0.30	0.50 / 0.30	0.50 / 0.30	0.50 / 0.30
	5.4	Drawbar pull, laden / unladen	kN	96	190	180	190	210
	5.5	Gradeability, laden / unladen	%	23	31	28	28	28
	5.6	Service brake, type		Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
	5.7	Parking brake, type		Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
	6.1	Engine manufacturer / type - EU Stage 4		Volvo TAD571VE	Volvo TAD572VE	Volvo TAD871VE	Volvo TAD871VE	Volvo TAD872VE
Other Details	6.2	Engine output to ISO 1585	kW	129	160	185	185	210
	6.3	Rated speed rotation	1/min	2200	2200	2200	2200	2200
	6.4	Cylinders / displacement	/cm3	4 / 5100	4 / 5100	6 / 7700	6 / 7700	6 / 7700
	7.1	Fuel tank capacity		180	250	250	250	320
	7.2	Transmission manufacturer / type		Dana T24000	Dana HR32000	Dana HR32000	Dana HR32000	Dana HR32000
	7.3	Coupling		Torque converter 3 / 3	Torque converter 4 / 4	Torque converter 4 / 4	Torque converter 4 / 4	Torque converter 4 / 4
	7.4	Working pressure for attachments	bar	180	180	180	180	180

	HMT 160 D				HMT 200 D				HMT 250 D/280 D				HMT 320 D			
	duplex				duplex				duplex				duplex			
h3	4500	5000	5500	6000	4500	5000	5500	6000	4500	5000	5500	6000	4500	5000	5500	6000
h1	3800	4050	4300	4550	4200	4450	4700	4950	4200	4450	4700	4950	4850	5100	5350	5600
h4	5150	5650	6150	6650	6450	6950	7450	7950	6450	6950	7450	7950	7100	7600	8100	8600
h2	190	190	190	190	250	250	250	250	250	250	250	250	320	320	320	320
α / β	6/10	6/10	3/5	3/5	6/10	6/10	3/5	3/5	6/10	6/10	3/5	3/5	6/10	6/10	3/5	3/5





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HMT trucks conform to
the EU Safety Requirements

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